

**U.S. DEPARTMENT OF ENERGY
OCCUPATIONAL EXPOSURE ASSESSMENT AND
CHRONIC BERYLLIUM DISEASE PREVENTION PROGRAM IMPLEMENTATION
COMBINED WORKSHOP**

**September 16–18, 1997
Northglenn, Colorado**

AGENDA

*Sponsored by:
Office of Environment, Safety and Health and Office of Defense Programs,
and Beryllium Monitoring Committee*

*Hosted by:
Rocky Flats Field Office*

Occupational exposure assessment is the first phase in implementing site-specific Chronic Beryllium Disease Prevention Programs (CBDPPs). Combining these workshops will bring attendees up to date on assessing any occupational exposures, with an emphasis on beryllium exposures, and on implementing all the elements of the CBDPP. Participants are encouraged to attend the entire workshop.

Day 1—The purpose of the Occupational Exposure Assessment session is to support DOE sites in implementing exposure assessment requirements contained in DOE Order 440.1, "Worker Protection Management for DOE Federal and Contractor Employees" and recommendations in DOE G 440.1-3, "Implementation Guide for use with DOE Order 440.1, Occupational Exposure Assessments." The workshop will also present current exposure assessment guidance and practices from the industrial hygiene profession and DOE community.

Days 2 & 3—The purpose of the Chronic Beryllium Disease Prevention Program Implementation session is to support DOE sites in implementing requirements in the recently issued DOE Notice 440.1, "Interim Chronic Beryllium Disease Prevention Program" and recommendations in its complementary guide, DOE G 440.1-7, "Draft Implementation Guide for use with DOE Notice 440.1, Interim Chronic Beryllium Disease Prevention Program." The workshop will focus on approaches to implementing the CBDPP and provide attendees with solutions for tailoring approaches to individual site conditions. A workshop product will be the identification of existing and needed components of the CBDPP Implementation Tool Kit to assist sites in meeting the January 1998 deadline for CBDPP Plan approval.

Who should attend:

Safety and health managers, industrial hygienists, line managers with beryllium program responsibility, occupational medicine staff, and labor groups representing workers impacted by beryllium exposure

TUESDAY, SEPTEMBER 16, 1997

7:30 - 8:30 am	Registration	<i>New Technologies Display Area Open</i>
8:30 - 8:40 am	Welcome	Jessie Roberson , Manager, Rocky Flats Field Office
8:40 - 9:00 am	Opening Remarks	Joe Fitzgerald , EH-5
9:00 - 9:10 am	Workshop Outline	Rick Jones , EH-52

9:10 - 3:00 pm	<i>Occupational Exposure Assessment</i>	Dave Pegram , EH-52, <i>Moderator</i>
9:10 - 9:20 am		Dave Pegram , EH-52, <i>Introduction</i>
9:20 - 9:40 am		Jeff Miller , American Industrial Hygiene Association (AIHA) Past Chair of the Exposure Assessment Strategies Committee, <i>Overview of the Second Edition of the AIHA Strategy for Assessing and Managing Occupational Exposures</i>
9:40 - 10:00 am		Larry Elliott , NIOSH, <i>NIOSH Exposure Assessment in Epidemiologic Analyses and National Occupational Research Agenda</i>
10:00 - 10:15 am	<i>Break</i>	<i>New Technologies Display Area Open</i>
10:15 - 10:30 am		Dave Pegram , EH-52, <i>Overview of the DOE Exposure Assessment Implementation Guidance, DOE G 440.1-3</i>
10:30 - 10:50 am		Paul Wambach , EH-61, <i>Exposure Estimates from Data Sets with Large Numbers of Non-Detect Measurements</i>
10:50 - 11:10 am		T.J. Sarlina , <i>Lead Exposure Assessment at Fermilab</i>
11:10 - 11:30 am		George Fulton , Lawrence Livermore National Laboratory, <i>Integrated Methods for Exposure Assessment at LLNL</i>
11:30 - 11:50 am		Marv Tillery , <i>Health Hazards Assessments at the Los Alamos National Laboratory</i>
11:50 - 1:20 pm	<i>Lunch</i>	
1:20 - 1:40 pm		Dave Zalk , Lawrence Livermore National Laboratory, <i>A Practical Guide to Negative Exposure Assessments</i>
1:40 - 2:00 pm		Richard Stone , Battelle, <i>Nuclear Artillery Shell Dismantlement/Dissolution</i>
2:00 - 2:20 pm		Elton Hewitt , Fluor Daniel Hanford, <i>Developing and Implementing an Employee Job Task Analysis at Hanford</i>
2:20 - 2:40 pm		Bruce King , Lawrence Berkeley National Laboratory, <i>Exposure Assessment, Medical Surveillance, and Continuous Improvement at Berkeley Lab</i>
2:40 - 3:00 pm		Barbara Hargis , Los Alamos National Laboratory, <i>Overview of LANL's Industrial Hygiene Program</i>
3:00 - 3:15 pm	<i>Break</i>	<i>New Technologies Display Area Open</i>
3:15 - 4:00 pm	<i>New Technologies for Exposure Monitoring</i>	Dave Pegram , EH-52, <i>Moderator</i>
3:15 - 3:30 pm		Murari Sharma , EH-52, <i>Innovative Technologies—The</i>

		<i>Exposure to Risk Monitoring System</i>
3:30 - 3:45 pm		Pat French , ADA Corporation, and Monty Herr , Lawrence Livermore National Laboratory, <i>Field Testing and Use of the Beryllium Real Time Monitor by LLNL and LANL</i>
3:45 - 4:00 pm		Monty Herr , Lawrence Livermore National Laboratory, <i>Development and Use of the Pocket Size Data Logging Photoionization Detector by LLNL</i>
4:00 - 5:00 pm	Facilitated Open Discussion	All Participants , <i>Exposure Assessment Implementation Needs</i>
5:00 - 5:30 pm		<i>New Technologies Display Area Open</i>
5:30 - 6:30 pm	Reception-Cash Bar	Terrace A Fountain Area
WEDNESDAY, SEPTEMBER 17, 1997		
8:00 - 9:20 am	Beryllium Disease Historical Perspectives	Rick Jones , EH-52, <i>Moderator</i>
8:00 - 8:20 am		Shawn Mohler , <i>Historical Operations and Exposures at Rocky Flats</i>
8:20 - 8:40 am		Mike Richen , RFETS, <i>Initial Beryllium Exposure Assessment Conducted at Rocky Flats in the Early 1980s</i>
8:40 - 9:00 am		Jim Johnson , Lawrence Livermore National Laboratory, <i>The Atomic Weapons Establishment, Cardiff, UK, Exposure Assessment Protocols, Sampling Data, and the Beryllium Control Model</i>
9:00 - 9:20 am		Michael Jackson , Safe Sites of Colorado, <i>Beryllium Worker Perspective</i>
9:20 - 10:10 am	CBDPP, DOE N 440.1, and DOE G 440.1-7 Overviews	Rick Jones , EH-52, <i>Moderator</i>
9:20 - 9:30 am		Rick Jones , EH-52, <i>Chronic Beryllium Disease Prevention Program Overview</i>
9:30 - 9:50 am		David Weitzman , EH-51, <i>Overview of the Recently Issued DOE Notice 440.1, "Interim Chronic Beryllium Disease Prevention Program"</i>
9:50 - 10:10 am		David Weitzman , EH-51, <i>Overview of the Draft Implementation Guide for Use With DOE Notice 440.1 (DOE G 440.1-7)</i>
10:10 - 10:25 am	Break	
10:25 - 11:15 am	Baseline Inventory and Sampling	Dave Pegram , EH-52, <i>Moderator</i>

10:25 - 10:35 am		Harvey Grasso , Oakland Operations Office, <i>Field Office Expectations</i>
10:35 - 10:55 am		Kathryn Creek , Los Alamos National Laboratory, <i>Baseline Inventory of the LANL Beryllium Technology Facility</i>
10:55 - 11:15 am		Facilitated Open Discussion: <i>CBDPP Implementation Tool Kit: Existing and Needed Components Regarding Baseline Inventory and Sampling</i>
11:15 - 2:20 pm	Hazard Assessment	Dave Pegram , EH-52, <i>Moderator</i>
11:15 - 11:25 am		Alan Trivette , Oak Ridge Operations Office, <i>Field Office Expectations</i>
11:25 - 11:45 am		John Martyny , Tri-County Health Department, <i>Implementation of Exposure Assessment Protocols for Beryllium Machining</i>
11:45 - 1:00 pm	Lunch	
1:00 - 1:20 pm		Dr. Tony LaMontagne , New England Research Institute, <i>Cleanup Worker Personal Breathing Zone Exposures to Beryllium in Two Buildings at Rocky Flats Environmental Technology Site</i>
1:20 - 1:40 pm		Jim Jenkins , Oak Ridge Y-12 Plant, <i>Task Hazard Assessment and Beryllium Work Plan</i>
1:40 - 2:00 pm		Mike Tuggle , EH-22, <i>A Proposed Exposure Limit for Beryllium</i>
2:00 - 2:20 pm		Facilitated Open Discussion: <i>CBDPP Implementation Tool Kit: Existing and Needed Components Regarding Hazard Assessment</i>
2:20 - 4:05 pm	Exposure Monitoring	David Weitzman , EH-51, <i>Moderator</i>
2:20 - 2:30 pm		Mike Garcia , Albuquerque Operations Office, <i>Field Office Expectations</i>
2:30 - 2:50 pm		Mike Kent , Brush Wellman Corporation, <i>Results of Particle Size Sampling Studies</i>
2:50 - 3:10 pm		Wayne Sanderson , NIOSH, <i>Constructing Beryllium Exposure Assessments Lessons Learned from NIOSH Beryllium Studies</i>
3:10 - 3:25 pm	Break	<i>New Technologies Display Area Open</i>
3:25 - 3:45 pm		Mike Tuggle , EH-22, <i>Full-Shift Sampling Versus STEL Sampling for Beryllium</i>
3:45 - 4:05 pm		Facilitated Open Discussion: <i>CBDPP Implementation</i>

Tool Kit: Existing and Needed Components Regarding Exposure Monitoring

4:05 - 5:25 pm ***Exposure Reduction and Minimization***

David Weitzman, EH-51, *Moderator*

4:05 - 4:15 pm

Janet Torma-Krajewski, Rocky Flats Field Office, *Field Office Expectations*

4:15 - 4:35 pm

Barbara Hargis, Los Alamos National Laboratory, *New Beryllium Facility at LANL*

4:35 - 4:55 pm

LeeAnn Holwager, Safe Sites of Colorado, and **Howard Gordon**, BNFL, *Initial D&D of Beryllium Electrorefining Cell at RFETS*

4:55 - 5:25 pm

Marc Kolanz, Brush Wellman Corporation, *Exposure Reduction and Minimization at Brush Wellman*

THURSDAY, SEPTEMBER 18, 1997

8:00 - 8:10 am ***Day Two Summary***

Rick Jones, EH-52

8:10 - 9:10 am ***Exposure Reduction and Minimization (cont.)***

David Weitzman, EH-51, *Moderator*

8:10 - 8:30 am

Susan Viet, MH Chew and Associates, *Development of a Retrospective Exposure Assessment Methodology for a Beryllium Epidemiological Study*

8:30 - 8:50 am

Alvin Viray, University of California, San Diego, *Beryllium Containment and Exposure Reduction for Fusion Energy Research*

8:50 - 9:10 am

Facilitated Open Discussion: CBDPP Implementation Tool Kit: Existing and Needed Components Regarding Exposure Reduction and Minimization

9:10 - 10:40 am ***Medical Surveillance***

Dr. Mike Montopoli, EH-61, *Moderator*

9:10 - 9:20 am

Dr. Bob Bistline, Rocky Flats Field Office, *Field Office Expectations*

9:20 - 9:40 am

Dr. Joe Furman, RFETS, *Medical Monitoring at Rocky Flats*

9:40 - 10:00 am ***Break***

New Technologies Display Area Open

10:00 - 10:20 am

Dr. David Deubner, Brush Wellman Corporation, *Medical Monitoring and Lymphocyte Proliferation Testing at Brush Wellman*

10:20 - 10:40 am

Facilitated Open Discussion: CBDPP Implementation Tool Kit: Existing and Needed Components Regarding Medical Surveillance

10:40 - 12:10 pm	Training	Dr. Maria Pavlova , EH-61, <i>Moderator</i>
10:40 - 10:50 am		Dr. Maria Pavlova , EH-61, <i>Introduction</i>
		Panel on Beryllium Training Development: A Health Risk Communication Prototype
10:50 - 11:00 am		Michael Garcia , Albuquerque Operations Office, <i>Field Office Expectations</i>
11:00 - 11:10 am		Lisa Carroll , Oak Ridge Institute for Science and Education, <i>Building Consensus on the Health Risk Communication Prototype</i>
11:10 - 11:20 am		LeeAnn Holwager , Safe Sites of Colorado, <i>Beryllium Risk Communication at RFETS</i>
11:20 - 11:30 am		Gary Foster , Lockheed Martin Energy Systems, Y-12 Plant, and Michael Jackson , Safe Sites of Colorado, <i>Worker Perspectives on Beryllium Training and Communication</i>
11:30 - 11:40 am		Rob Nicholas , Los Alamos National Laboratory, <i>Effective Training Methods for Communicating Beryllium Health Risks</i>
11:40 - 11:50 am		Marc Kolanz , Brush Wellman Corporation, <i>Beryllium Training for Safety and Health Professionals</i>
11:50 - 12:10 pm		Facilitated Open Discussion: Training in the CBDPP: Application of a Health Risk Communication Model
12:10 - 1:30 pm	Lunch	
1:30 - 3:00 pm	Recordkeeping and Performance Feedback	David Weitzman , EH-51, <i>Moderator</i>
1:30 - 1:40 pm		Dr. Bob Bistline , Rocky Flats Field Office, <i>Field Office Expectations</i>
1:40 - 2:00 pm		Michael Van Dyke , Tri-County Health Department, <i>Development of an Exposure Database and Surveillance System for DOE Cleanup Work</i>
2:00 - 2:20 pm		Harry Pettengill , EH-2, <i>CBDPP: Oversight Strategies (Monitoring, Implementation, and Feedback)</i>
2:20 - 2:40 pm		Kathryn Creek , Los Alamos National Laboratory, <i>Performance Measures for CBDPP at LANL</i>
2:40 - 3:00 pm		Facilitated Open Discussion: CBDPP Implementation Tool Kit: Existing and Needed Components Regarding Recordkeeping and Performance Feedback
3:00 - 3:15 pm	Break	<i>New Technologies Display Area Open</i>

3:15 - 3:50 pm	<i>Closing Discussions</i>	All Participants , <i>Pulling it all Together—Tool Kit—Preparing the Plan</i>
3:50 - 4:00 pm	<i>Closing Remarks</i>	Rick Jones , EH-52